

Outside face of
Culvert Sidewall.

Extend longitudinal reinforcing
steel in footing (top & bottom)
1'-3" into toe wall (measured along
bar) Typ.

8'-0"
(typ.)

1'-3" Typ.

Bottom of wing wall
footing/toe wall.

Rear face
of wing wall
footing.

3-#8's vertically each
face of wing wall
footing (typ.).

Transverse rein-
forcement not
shown. Extend
as in Option.

Outside face of Culvert
toe/head wall.

Optional const. joint in
footing. Key size: 4" x 2"
for footings 18" or less
in thickness, 6" x 3" for
footings over 18" in
thickness.

Outside face of
Culvert Sidewall.

Wing Footing

Footing reinf. steel.
(Hook main transverse
only)

1'-3"
Typ.
1'-6"
Measured
along bar.

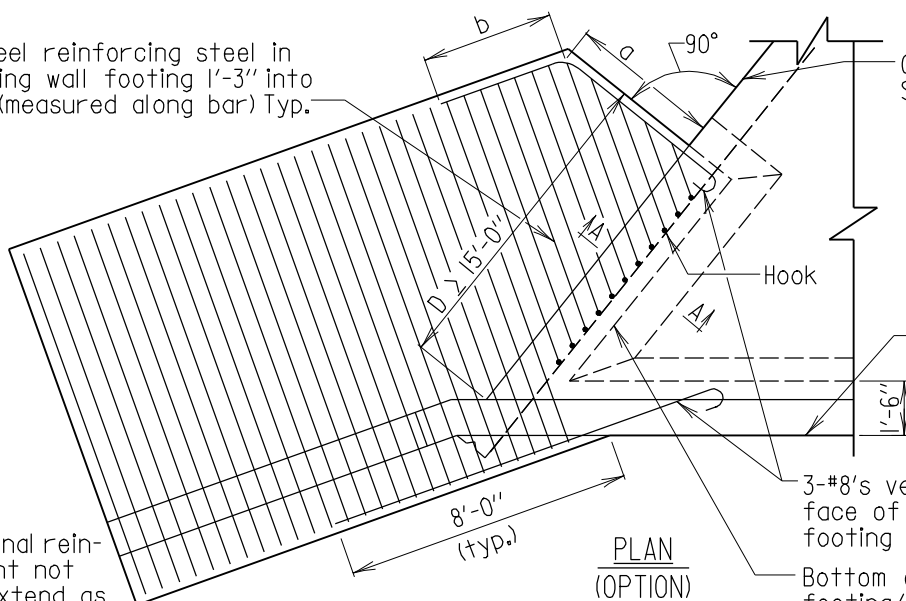
PLAN
Scale: $\frac{3}{16}$ " = 1'-0"

SECTION A-A
Scale: None

Note:
 $a + b = 8'-0"$

Extend heel reinforcing steel in
top of wing wall footing 1'-3" into
toe wall (measured along bar) Typ.

Outside face of Culvert
Sidewall.



Longitudinal rein-
forcement not
shown. Extend as
shown in Plan.

PLAN
(OPTION)
Scale: $\frac{3}{16}$ " = 1'-0"

Note:

- When the distance measured along the outside face of culvert, between the back of headwall/wing wall and the rear face of wing wall footing, (shown as D), exceeds 15 ft. the Contractor has the option of installing the footing as shown in Option.
- Culvert and toe wall reinforcing steel not shown.

APPROVAL	
<i>L. S. Friedman</i> DIRECTOR	OFFICE OF BRIDGE DEVEL.
DATE: 5/3/89	
REVISIONS	
SHA	FHWA
1-22-01	
10-9-07	
FHWA APPROVAL	
DATE: 6-8-90	

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF BRIDGE DEVELOPMENT

TIE-IN DETAIL FOR BOX CULVERT
BOTTOM SLAB AND WING WALL FOOTING

STANDARD NO. BC(6.09)-89-200

SHEET 1 OF 1

BOX CULVERT